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## What is claimed is:

1. An image-sensing device comprising:

a plurality of pixels that generate an electric signal proportional to an amount of incident light and then output the electric signal as an analog signal that is natural-logarithmically proportional to the amount of incident light; and

a level adjuster that adjusts a level of the electric signal output from the pixels by adjusting according to the electric signal output from the pixels a bias voltage fed to the pixels.

2. An image-sensing device as claimed in claim 1,

wherein the pixels are arranged in a matrix so as to form an area sensor as a whole.

3. An image-sensing device as claimed in claim 1,

wherein the pixels each comprise:

a photosensitive element receiving at a first electrode thereof a direct-current voltage;

a transistor having a first electrode, a second electrode, and a control electrode, the transistor having the first and control electrodes thereof connected to a second electrode of the photosensitive element so that electric charge output from the photosensitive element flows into the transistor, the transistor receiving at the second electrode thereof a direct-current voltage so that the transistor operates in a subthreshold region,

wherein the level adjuster adjusts the level of the electric signal output from

the pixels by adjusting the direct-current voltage applied to the second electrode of the transistor.

4. An image-sensing device as claimed in claim 3,

5 wherein the pixels are arranged in a matrix so as to form an area sensor as a whole.

5. An image-sensing device as claimed in claim 3,

wherein the level adjuster produces the direct-current voltage applied to the
second electrode of the transistor by subtracting from a predetermined voltage a
voltage according to the electric signal output from a plurality of pixels.

6. An image-sensing device as claimed in claim 5,

wherein the pixels are arranged in a matrix so as to form an area sensor as a whole.

7. An image-sensing device as claimed in claim 5,

wherein the level adjuster comprises:

an integrator circuit for integrating the voltage according to the electric 20 signal output from the plurality of pixels; and

a subtracting circuit for subtracting from the predetermined voltage the voltage integrated by the integrator circuit,

wherein a voltage output from the subtracting circuit is fed to the second electrode of the transistor.

8. An image-sensing device as claimed in claim 7,

wherein the level adjuster further comprises:

a holding circuit for holding the voltage output from the subtracting circuit;

5 and

a switch connected between the subtracting circuit and the holding circuit.

9. An image-sensing device as claimed in claim 8,

wherein the pixels are arranged in a matrix so as to form an area sensor as a

10 whole.

10. An image-sensing device as claimed in claim 1,

wherein the pixels each comprise:

a photosensitive element receiving at a second electrode thereof a direct-

15 current voltage;

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a transistor having a first electrode, a second electrode, and a control

electrode, the transistor having the second electrode thereof connected to a first

electrode of the photosensitive element so that electric charge output from the

photosensitive element flows into the transistor, the transistor receiving at the first

and control electrodes thereof direct-current voltages individually so that the

transistor operates in a subthreshold region,

wherein the level adjuster adjusts the level of the electric signal output from

the pixels by adjusting the direct-current voltage applied to the control electrode of

the transistor.

11. An image-sensing device as claimed in claim 10,

wherein the pixels are arranged in a matrix so as to form an area sensor as a whole.

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12. An image-sensing device as claimed in claim 10,

wherein the level adjuster produces the direct-current voltage applied to the control electrode of the transistor by subtracting from a predetermined voltage a voltage according to the electric signal output from a plurality of pixels.

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13. An image-sensing device as claimed in claim 12,

wherein the pixels are arranged in a matrix so as to form an area sensor as a whole.

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14. An image-sensing device as claimed in claim 12,

wherein the level adjuster comprises:

an integrator circuit for integrating the voltage according to the electric signal output from the plurality of pixels; and

a subtracting circuit for subtracting from the predetermined voltage the voltage integrated by the integrator circuit,

wherein a voltage output from the subtracting circuit is fed to the control electrode of the transistor.

15. An image-sensing device as claimed in claim 14,

wherein the level adjuster further comprises:

a holding circuit for holding the voltage output from the subtracting circuit; and

a switch connected between the subtracting circuit and the holding circuit.

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16. An image-sensing device as claimed in claim 15,

wherein the pixels are arranged in a matrix so as to form an area sensor as a whole.